



# SUBSTITUTION REQUEST

(After the Bidding/Negotiating Phase)

Project: \_\_\_\_\_ Substitution Request Number: \_\_\_\_\_  
 \_\_\_\_\_  
 From: \_\_\_\_\_  
 To: \_\_\_\_\_ Date: \_\_\_\_\_  
 \_\_\_\_\_  
 A/E Project Number: \_\_\_\_\_  
 Re: \_\_\_\_\_ Contract For: \_\_\_\_\_

Specification Title: \_\_\_\_\_ Description: \_\_\_\_\_  
 Section: \_\_\_\_\_ Page: \_\_\_\_\_ Article/Paragraph: \_\_\_\_\_

Proposed Substitution: \_\_\_\_\_  
 Manufacturer: \_\_\_\_\_ Phone: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 Trade Name: \_\_\_\_\_ Model No.: \_\_\_\_\_  
 Installer: \_\_\_\_\_ Phone: \_\_\_\_\_  
 Address: \_\_\_\_\_

History:  New product  1-4 years old  5-10 years old  More than 10 years old

Differences between proposed substitution and specified product: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Point-by-point comparative data attached — REQUIRED BY A/E

Reason for not providing specified item: \_\_\_\_\_  
 \_\_\_\_\_

### Similar Installation:

Project: \_\_\_\_\_ Architect: \_\_\_\_\_  
 Address: \_\_\_\_\_ Owner: \_\_\_\_\_  
 \_\_\_\_\_ Date Installed: \_\_\_\_\_

Proposed substitution affects other parts of Work:  No  Yes; explain \_\_\_\_\_

Savings to Owner for accepting substitution: \_\_\_\_\_ (\$ \_\_\_\_\_).

Proposed substitution changes Contract Time:  No  Yes [Add] [Deduct] \_\_\_\_\_ days.

Supporting Data Attached:  Drawings  Product Data  Samples  Tests  Reports  \_\_\_\_\_

# SUBSTITUTION REQUEST

(After the Bidding/Negotiating Phase — Continued)

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The Undersigned certifies:

- Proposed substitution has been fully investigated and determined to be equal or superior in all respects to specified product.
  - Same warranty will be furnished for proposed substitution as for specified product.
  - Same maintenance service and source of replacement parts, as applicable, is available.
  - Proposed substitution will have no adverse effect on other trades and will not affect or delay progress schedule.
  - Cost data as stated above is complete. Claims for additional costs related to accepted substitution which may subsequently become apparent are to be waived.
  - Proposed substitution does not affect dimensions and functional clearances.
  - Payment will be made for changes to building design, including A/E design, detailing, and construction costs caused by the substitution.
  - Coordination, installation, and changes in the Work as necessary for accepted substitution will be complete in all respects.
- 

Submitted by: \_\_\_\_\_

Signed by: \_\_\_\_\_

Firm: \_\_\_\_\_

Address: \_\_\_\_\_

Telephone: \_\_\_\_\_

Attachments:

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## A/E's REVIEW AND ACTION

- Substitution approved - Make submittals in accordance with Specification Section 01 25 00 Substitution Procedures.
- Substitution approved as noted - Make submittals in accordance with Specification Section 01 25 00 Substitution Procedures.
- Substitution rejected - Use specified materials.
- Substitution Request received too late - Use specified materials.

Signed by: \_\_\_\_\_ Date: \_\_\_\_\_

---

Additional Comments:     Contractor     Subcontractor     Supplier     Manufacturer     A/E  
 Other:

# ELCH Series - Interior Recessed

Interior Joints (Wall)

## FEATURES

**MAXIMUM MOVEMENT** "V" seal design allows for maximum thermal and seismic movement

**CONTINUOUS SIGHT LINE** This system can be used on walls, ceilings and corners to provide seamless and continuous aesthetics

## DETAILS

### MATERIAL

6063-T6 Aluminum and Santoprene Seal, Meets ASTM B209

**FINISH** Mill

### MOVEMENT

- Thermal: Horizontal and Vertical
- Seismic: Lateral Shear

**MOUNTING** Recessed

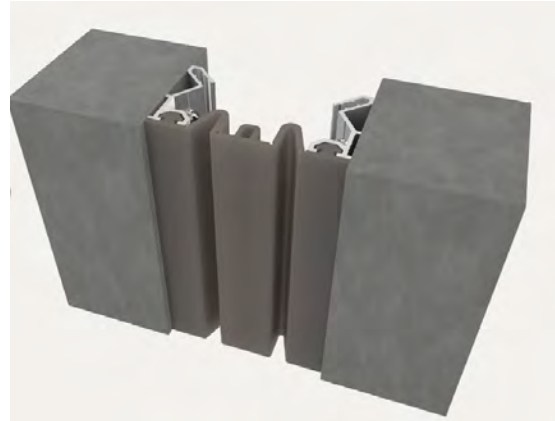
**JOINT SIZE** 2 inches to 24 inches

**LENGTH** Continuous

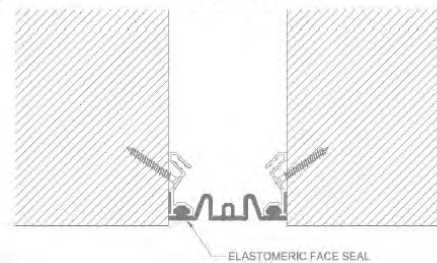
**APPLICATION** Interior

**INSTALLATION** Wall or Ceiling

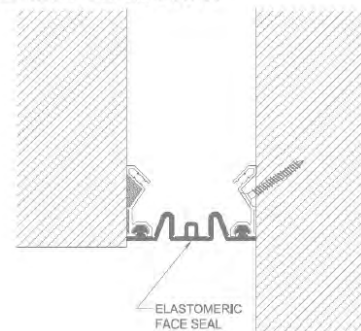
**OPTIONS** Additional size and material options available upon request



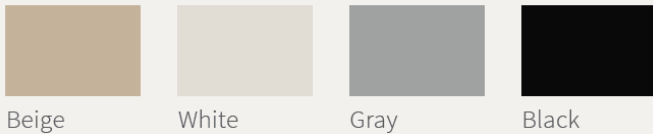
**WALL/CEILING-TO-WALL/CEILING**



**WALL/CEILING-TO-CORNER**



## SEAL COLORS



## MODELS

MODEL	APPLICATION	JOINT SIZE AT MEAN T°F	EXPOSED SIGHT LINE	TOTAL MOVEMENT
ELCH-200	Wall/Ceiling to Wall/Ceiling	2" (51mm)	2" (51mm)	2" (51mm)
ELCH-300	Wall/Ceiling to Wall/Ceiling	3" (76mm)	3" (76mm)	3" (76mm)
ELCH-400	Wall/Ceiling to Wall/Ceiling	4" (102mm)	4" (102mm)	4" (102mm)
ELCH-500	Wall/Ceiling to Wall/Ceiling	5" (127mm)	5" (127mm)	5" (127mm)
ELCH-600	Wall/Ceiling to Wall/Ceiling	6" (152mm)	6" (152mm)	6" (152mm)
ELCH-800	Wall/Ceiling to Wall/Ceiling	8" (203mm)	8" (203mm)	8" (203mm)
ELCH-900	Wall/Ceiling to Wall/Ceiling	9" (229mm)	9" (229mm)	9" (229mm)
ELCH-1000	Wall/Ceiling to Wall/Ceiling	10" (254mm)	10" (254mm)	10" (254mm)
ELCH-1200	Wall/Ceiling to Wall/Ceiling	12" (305mm)	12" (305mm)	12" (305mm)

MODEL	APPLICATION	JOINT SIZE AT MEAN T°F	EXPOSED SIGHT LINE	TOTAL MOVEMENT
ELCH-1500	Wall/Ceiling to Wall/Ceiling	15" (381mm)	15" (381mm)	15" (381mm)
ELCH-1600	Wall/Ceiling to Wall/Ceiling	16" (406mm)	16" (406mm)	16" (406mm)
ELCH-1800	Wall/Ceiling to Wall/Ceiling	18" (457mm)	18" (457mm)	18" (457mm)
ELCH-2000	Wall/Ceiling to Wall/Ceiling	20" (508mm)	20" (508mm)	20" (508mm)
ELCH-2400	Wall/Ceiling to Wall/Ceiling	24" (610mm)	24" (610mm)	24" (610mm)
ELCH-200W	Wall/Ceiling to Corner	2" (51mm)	2" (51mm)	2" (51mm)
ELCH-300W	Wall/Ceiling to Corner	3" (76mm)	3" (76mm)	3" (76mm)
ELCH-400W	Wall/Ceiling to Corner	4" (102mm)	4" (102mm)	4" (102mm)



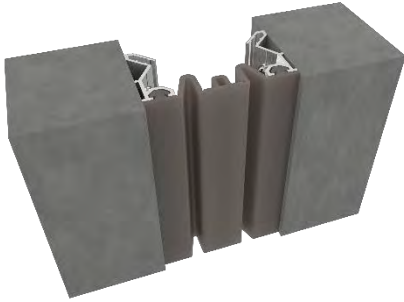
Erie Metal Specialties, Inc.  
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Akron, NY 14001  
Phone: 716-542-3991  
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# ELCH-Series Installation Instructions

## SEISMIC ELASTOMERIC WALL & CEILING SYSTEM - INTERIOR RECESSED APPLICATION

**MODEL(S): ELCH/ELCHW**

### ELCH Wall to Wall / Ceiling to Ceiling Cover System – 2” Through 6” Sizes



#### GENERAL DESCRIPTION

The ELCH-Series Seismic Elastomeric Corridor System limits the sight line of the expansion joint by mounting inside the joint opening and allows a color selection to match your surrounding substrate and finish material. This system accommodates seismic movement.

**GENERAL SAFETY PRECAUTIONS** Improper selection, installation, or use can cause personal injury or property damage. It is solely the responsibility of the user, through their own analysis, to select products suitable to the specific application requirements, ensure proper maintenance and use as intended. Follow local, state, and federal regulations for proper installation and operation requirements.

#### Introduction + Safety

Please read the complete instructions carefully before beginning any work. To ensure proper installation and performance of the product, the following actions must be completed by the installing contractor. Failure to do so will affect product warranty.

#### Transportation + Storage

- Inspect all shipments and materials for missing or damaged components and hardware.
- Material must be stored in a clean, dry location.

#### Preparation

- Locate the packing slip(s) and/or shop drawings.
- Verify that all products listed on the packing slip are included in the package.
- Check the products for damage. If products are damaged, report a freight claim immediately and leave the products in their packaging. If you sign for products without reporting damage, you waive your right to a freight claim and will be responsible for their replacement cost.
- Read the instructions thoroughly before beginning installation.

## Tool List

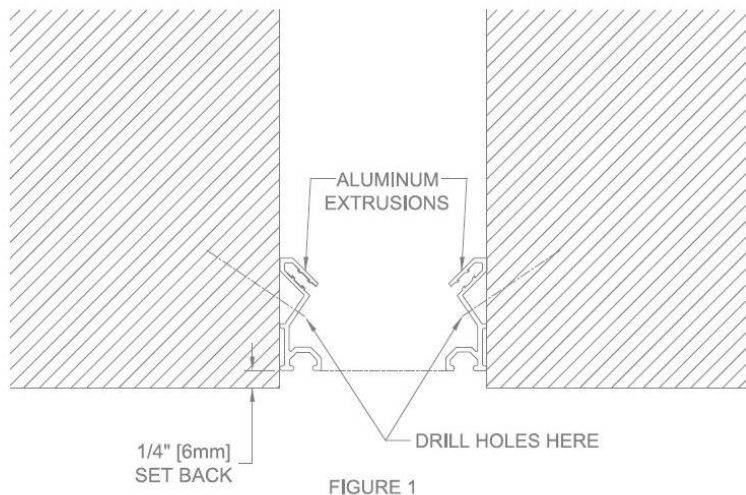
- Tape measure
- Chop saw to cut product to length
- Electric drill with 5/32" masonry bit (concrete wall) & 3/16" metal bit
- Utility knife
- Sealant
- Structural adhesive
- Wood blocking

## Preinstallation

1. Ensure that the area where the expansion system is being installed is smooth and level.

## INSTALLATION

1. Position aluminum extrusion in the expansion joint and mark hole locations at 18" OC. Drill  $\varnothing 3/16$ " holes into the extrusions at the marked locations. **See Figure 1**





2. Attach the aluminum extrusions with an appropriate length drywall screw (by installer), making sure it penetrates the substrate. When attaching to a concrete wall, drill a hole into concrete using a  $\text{Ø}5/32$ " masonry bit and attach using  $\text{Ø}3/16$ " Tapcon anchors (by installer). **See Figure 2**

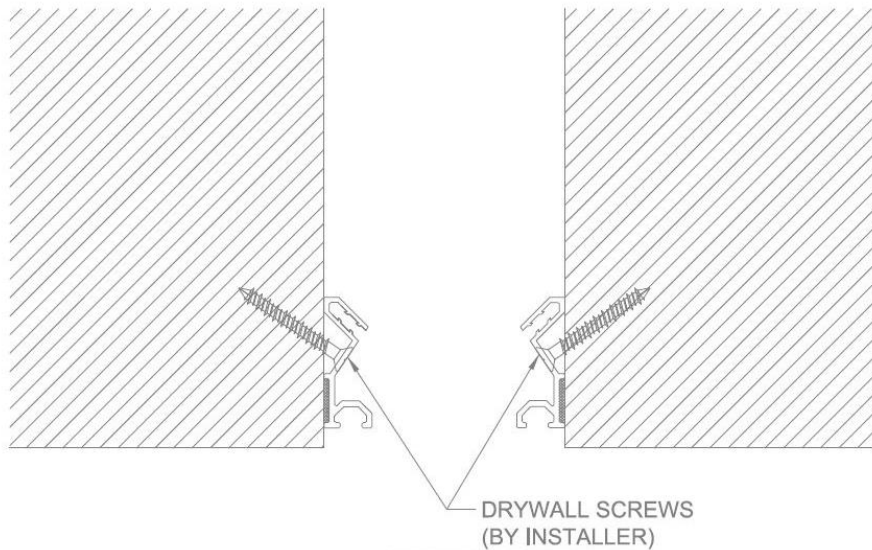


FIGURE 2

3. Place the elastomeric seal into position and push the seal bulbs into extrusion channels as shown. **See Figure 3**. Make sure the bulbs are seated all the way into the channel. Do not stretch the seal lengthwise during installation.

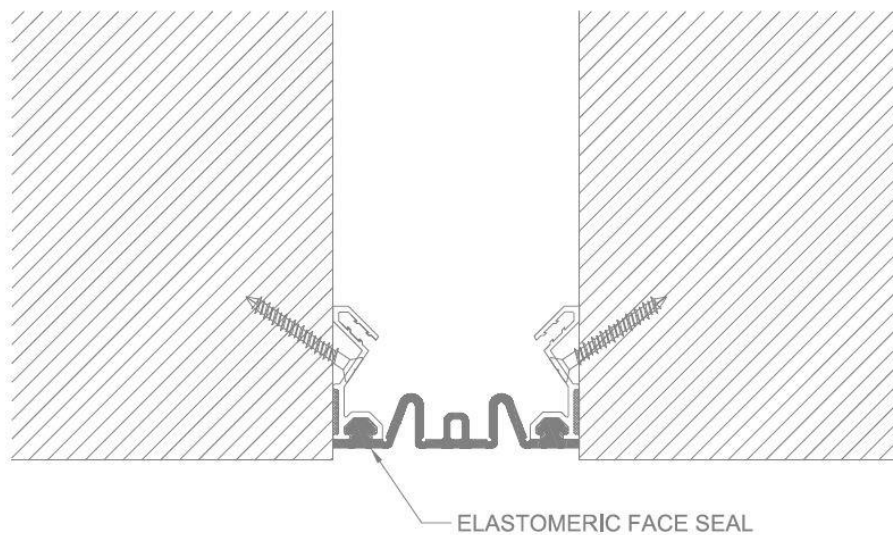


FIGURE 3

## ELCHw Wall to Corner System – 2” Through 4” Sizes



### GENERAL DESCRIPTION

EMS' ELCHw Elastomeric Interior Wall System is designed to match the ELCH system in corner applications.

### Preinstallation

1. Ensure that the area where the expansion system is being installed is smooth and level.

### INSTALLATION

1. Position one of the frames onto the wall of the expansion joint and mark hole locations at 18" OC. (Reference shop drawings for more details) Drill  $\text{Ø}3/16$ " holes into the extrusions at the marked locations. When attaching to a concrete wall, drill a hole into the concrete at these locations with a  $\text{Ø}5/32$ " masonry bit. **See Figure 1.**

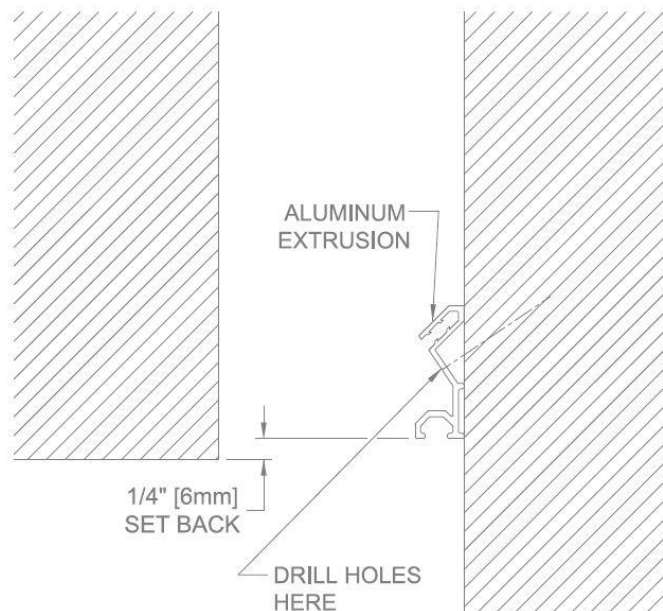


FIGURE 1

2. Attach the aluminum wall extrusions with an appropriate length drywall screw (by installer), making sure it penetrates the substrate. When attaching to a concrete wall, drill a hole into concrete using a  $\text{Ø}5/32$ " masonry bit and attach using  $\text{Ø}3/16$ " Tapcon anchors (by installer). **See Figure 2.**

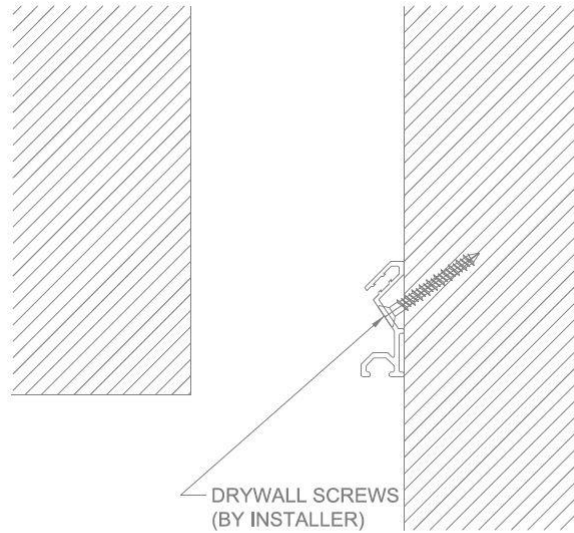


FIGURE 2

3. Apply structural adhesive (by installer) along the back side of the other extrusions prior to installation. (Follow adhesive manufacturer guidelines) Mount the extrusion to the inside surface as shown, making sure it lines up with the wall extrusion. (Also refer to shop drawings for more detail) **See Figure 3**

Helpful Hint: Install temporary wood blocking to secure extrusion to wall while adhesive cures.

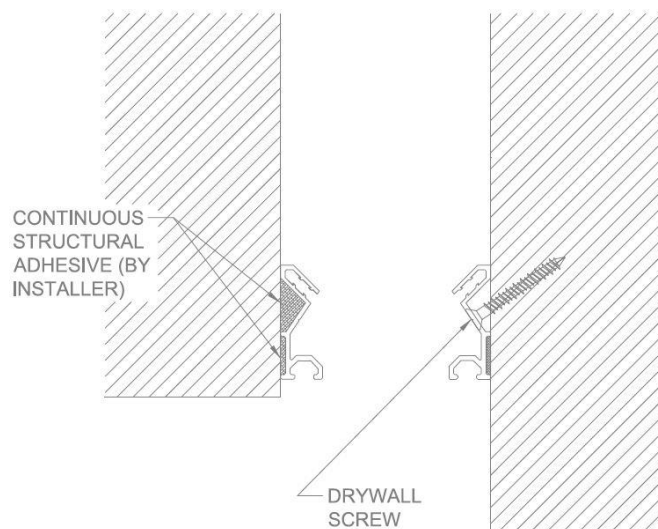


FIGURE 3



4. Place the elastomeric seal into position and push the seal bulbs into extrusion channels as shown. **See Figure 4.** Make sure the bulbs are seated all the way into the channel. Do not stretch the seal lengthwise during installation.

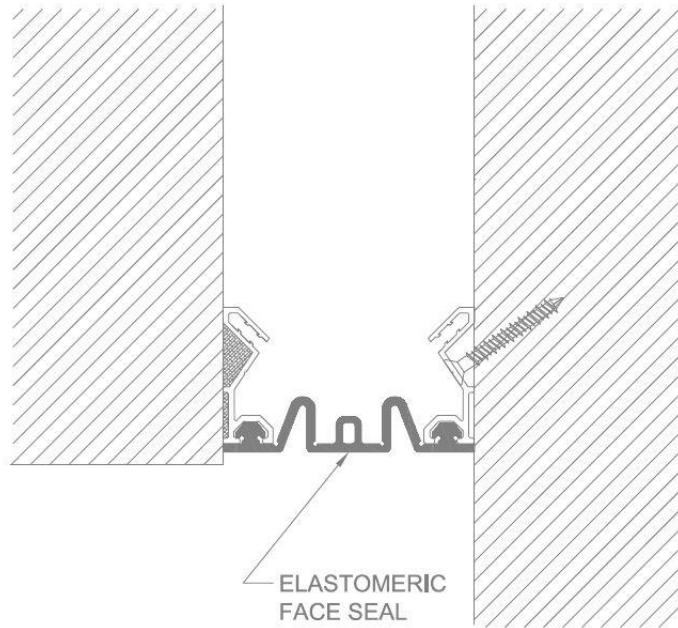


FIGURE 4

## FIELD SPLICE FOR ELASTOMERIC V-SEAL

1. After determining the angle needed, use a miter box and a non-serrated saw (teeth removed) and cut ends of seal clean, straight and square. **See Figure 1**

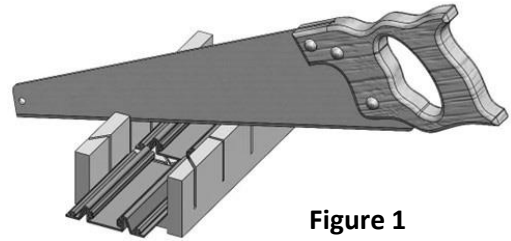


Figure 1

2. After donning the proper PPE, use a solvent (by others) that is safe for elastomeric materials and clean any residual material from the cut ends of the seals. Allow to dry prior to Step #3. **See Figure 2**

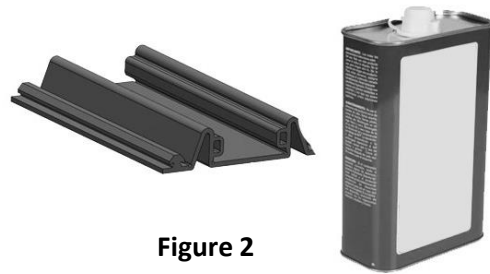


Figure 2

### Straight Butt Splice

Insert splice clips (if required) (part # 27511) halfway into the alignment holes on one of the seals. Apply glue, cyanoacrylate or similar adhesive (by others) to both seal ends and follow instructions by the adhesive manufacturer. Almost immediately after adhesive is applied, insert the protruding ends of the splice clips into the ends of the two seals together, applying uniform pressure for at least two minutes while maintaining contact between both sides. The splice clip is not necessary, but is recommended, especially on larger sized seals. **See Figure 3**

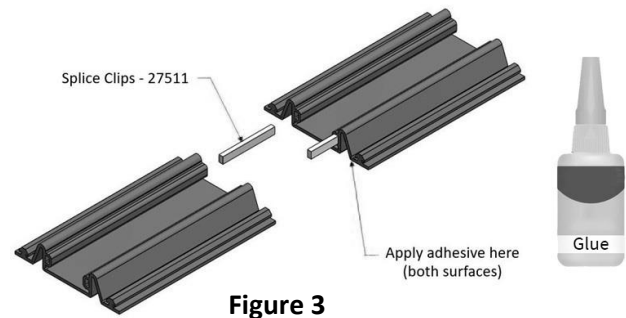


Figure 3

### Vertical Outside Splice

Insert splice clips (if required) (part # 28090) halfway into the alignment holes on one of the seals. Apply glue, cyanoacrylate or similar adhesive (by others) to both seal ends and follow instructions by the adhesive manufacturer. Almost immediately after adhesive is applied, insert the protruding ends of the splice clips into the ends of the two seals together, applying uniform pressure for at least two minutes while maintaining contact between both sides. The splice clip is not necessary, but is recommended, especially on larger sized seals. **See Figure 4**

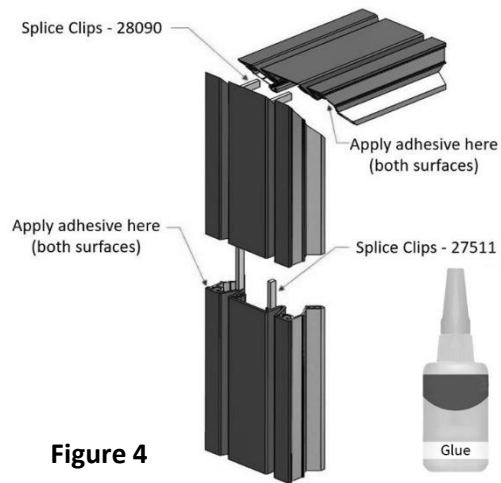


Figure 4

### Vertical Inside Splice

Insert splice clips (if required) (part # 28090) halfway into the alignment holes on one of the seals. Apply glue, cyanoacrylate or similar adhesive (by others) to both seal ends and follow instructions by the adhesive manufacturer. Almost immediately after adhesive is applied, insert the protruding ends of the splice clips into the ends of the two seals together, applying uniform pressure for at least two minutes while maintaining contact between both sides. The splice clip is not necessary, but is recommended, especially on larger sized seals. **See Figure 5**

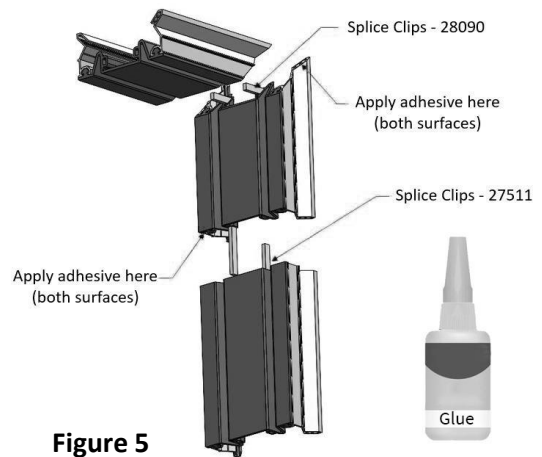


Figure 5

### Horizontal Splice

Insert splice clips (if required) (part # 28091) halfway into the alignment holes on one of the seals. Apply glue, cyanoacrylate or similar adhesive (by others) to both seal's ends and follow instructions by the adhesive manufacturer. Almost immediately after adhesive is applied, insert the protruding ends of the splice clips into the ends of the two seals together, applying uniform pressure for at least two minutes while maintaining contact between both sides. The splice clip is not necessary, but is recommended, especially on larger sized seals. **See Figure 6**

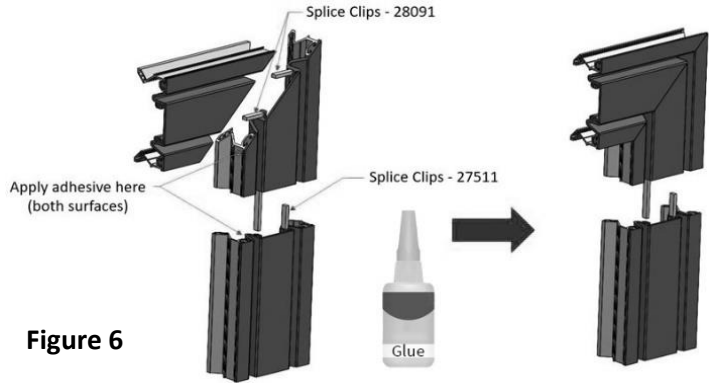


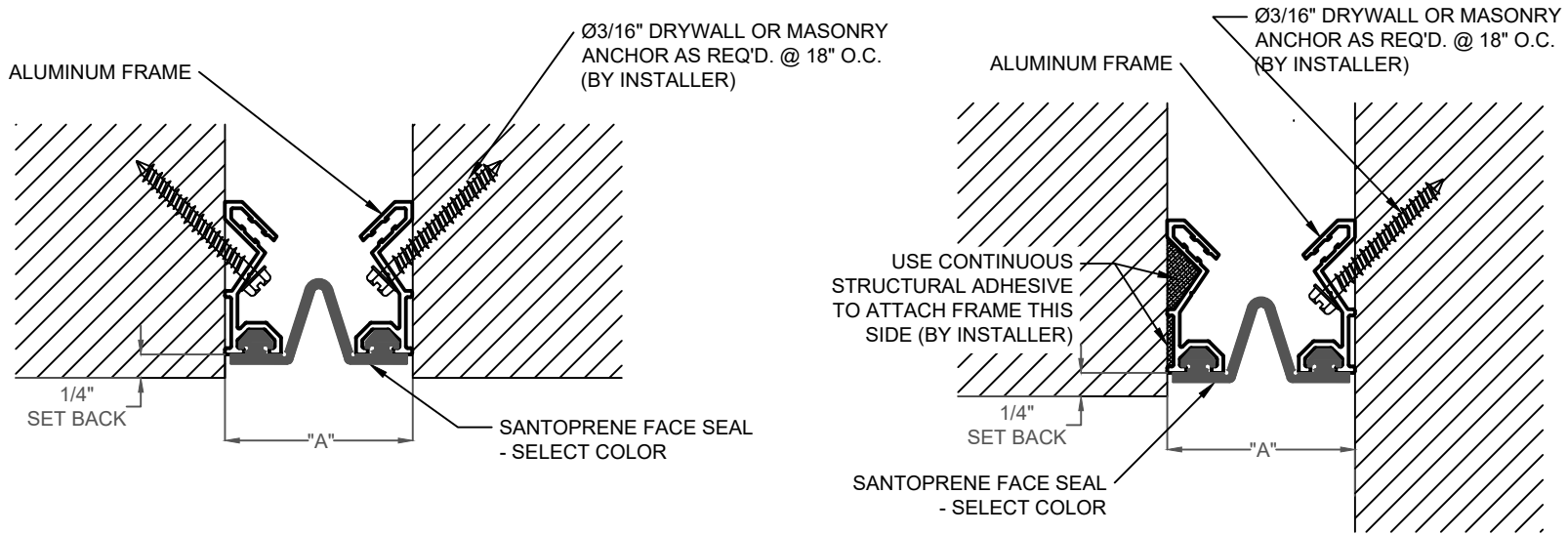
Figure 6

3. Recheck the splices after the adhesive has cured and reapply adhesive as necessary. Allow 15 minutes prior to installation of seal. Allow 24 hours for adhesive to fully cure and achieve proper working strength. Ensure that the splice of the seal is not within 2" of a joint in the aluminum extrusion, if possible.

**See Figure 7**



Figure 7



SEAL COLOR SELECTOR			
BLACK	_____	WHITE	_____
BEIGE	_____	GRAY	_____

**INTERIOR WALL & CEILING/CORNER FLAT SYSTEM**  
 MOVEMENT: +/- 50% NOMINAL JOINT WIDTH  
 STOCK LENGTHS: ALUMINUM FRAMES: 10'  
 SEAL: CONTINUOUS

PRODUCT	Application	Joint Size "A" @ Mean T°F	Exposed Site line: IN(MM)	Total Movement IN (MM)
ELCH-200	Wall/Ceiling	2.00" (51)	2.00" (51)	2.00" (51)
ELCH-200W	Wall/Ceiling Corner	2.00" (51)	2.00" (51)	2.00" (51)

NO.	Description	Date	By
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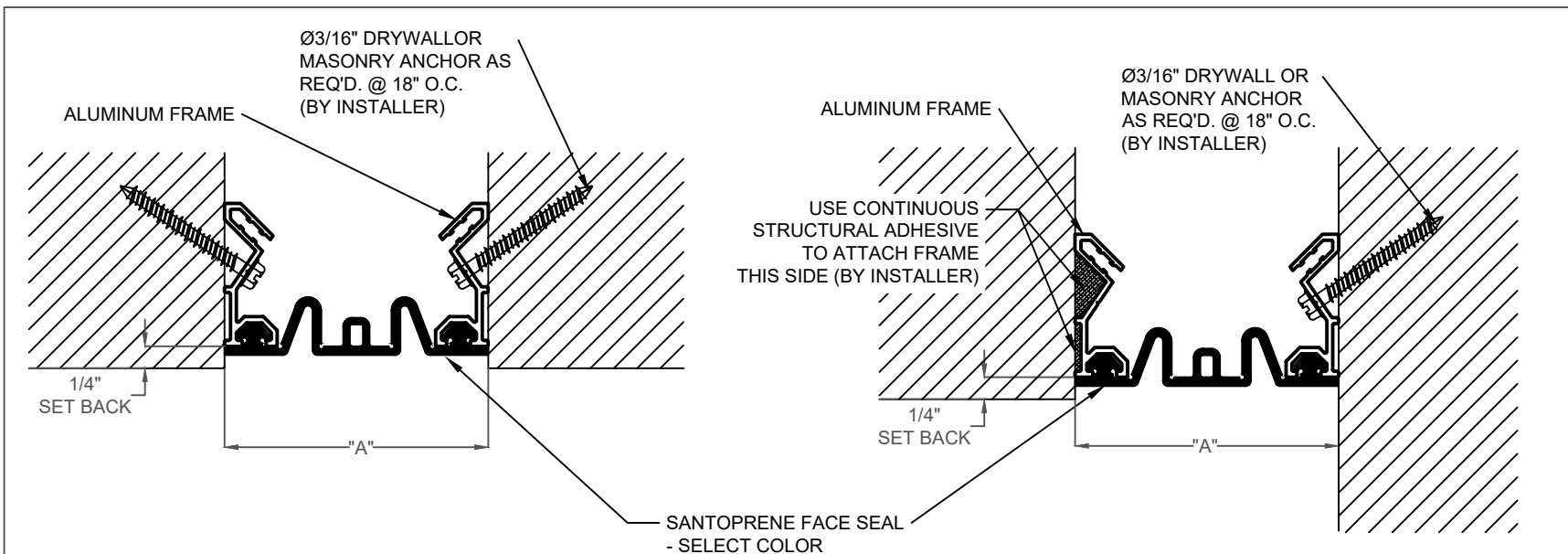


13311 Main Road \* Akron \* New York \* 14001  
 Phone: (716) 542-3991 \* Fax: (716) 542-3996 \* E-mail: sales@eriemetal.com

PROJECT:
TITLE: ELCH-200/200W

Detailed by:	Date:
BAF	10/21/17
Checked by:	Date:
SLP	10/21/17
Scale:	EMS Job #:
NTS	
Sheet No.:	Drawing No.:
1 of 1	ELCH-1





SEAL COLOR SELECTOR			
BLACK	_____	WHITE	_____
BEIGE	_____	GRAY	_____

**INTERIOR WALL & CEILING/CORNER FLAT SYSTEM**

MOVEMENT: +/- 50% NOMINAL JOINT WIDTH  
 STOCK LENGTHS: ALUMINUM FRAMES: 10'  
 SEAL: CONTINUOUS

PRODUCT	Application	Joint Size "A" @ Mean T°F	Exposed Site line: IN(MM)	Total Movement IN (MM)
ELCH-300	Wall/Ceiling	3.00" (76)	3.00" (76)	3.00" (76)
ELCH-400	Wall/Ceiling	4.00" (102)	4.00" (102)	4.00" (102)
ELCH-500	Wall/Ceiling	5.00" (127)	5.00" (127)	5.00" (127)
ELCH-600	Wall/Ceiling	6.00" (152)	6.00" (152)	6.00" (152)
ELCH-300W	Wall/Ceiling Corner	3.00" (76)	3.00" (76)	3.00" (76)
ELCH-400W	Wall/Ceiling Corner	4.00" (102)	4.00" (102)	4.00" (102)

NO.	Description	Date	By
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PROJECT:

---

TITLE: ELCH-300/300W, 400/400W, 500, 600

Detailed by:	Date:
BAF	10/21/17
Checked by:	Date:
SLP	10/21/17
Scale:	EMS Job #:
NTS	
Sheet No.:	Drawing No.:
1 of 1	ELCH-1